

Test Path #1 from DVT Plan 288117-70020 Section 7.0

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DVT Pre-Test Performed to verify operational units.

Serial Number	Buttons operational	Audio	LCD	Battery contact	Battery Door	Real time		IR	Backlight	Communication	Results
						clock	clock				
NJD000018P	x	x	x	x	x	x	x	x	x	x	OK
NJD000019P	x	x	x	x	x	x	x	x	x	x	OK
NJD000020P	x	x	x	x	x	x	x	x	x	x	OK
NJD000022P	x	x	x	x	x	x	x	x	x	x	OK
NJD000024P	x	x	x	x	x	x	x	x	x	x	OK
NJD000025P	x	x	x	x	x	x	x	x	x	x	OK
NJD000026P	x	x	x	x	x	x	x	x	x	x	OK
NJD000028P	x	x	x	x	x	x	x	x	x	x	OK
NJD000031P	x	x	x	x	x	x	x	x	x	x	OK
NJD000033P	x	x	x	x	x	x	x	x	x	x	OK
NJD000034P	x	x	x	x	x	x	x	x	x	x	OK
NJD000035P	x	x	x	x	x	x	x	x	x	x	OK
NJD000036P	x	x	x	x	x	x	x	x	x	x	OK
NJD000037P	x	x	x	x	x	x	x	x	x	x	OK
NJD000077P	x	x	x	x	x	x	x	x	x	x	OK
NJD000078P	x	x	x	x	x	x	x	x	x	x	OK
NJD000079P	x	x	x	x	x	x	x	x	x	x	OK
NJD000080P	x	x	x	x	x	x	x	x	x	x	OK
NJD000138P	x	x	x	x	x	x	x	x	x	x	OK
NJD000139P	x	x	x	x	x	x	x	x	x	x	OK
NJD000140P	x	x	x	x	x	x	x	x	x	x	OK
NJD000149P	x	x	x	x	x	x	x	x	x	x	OK

Testing performed by

Date:

23-May-02

EQUIPMENT:

PAR# 5365 TEST PLAN: 288117-70020

Patient Programmer for Neuro devices.

DATE: 29 MAY 02 INITIAL VISUAL & ELECTRICAL

SUMMARY SHEET

TECH:

SERIAL#	VISUAL	Requestor
NJD000018P	O.K.	did functional X
NJD000019P	O.K.	X
NJD000020P	O.K.	X
NJD000022P	O.K.	X
NJD000024P	O.K.	X
NJD000025P	O.K.	X
NJD000026P	O.K.	X
NJD000028P	O.K.	X
NJD000031P	O.K.	X
NJD000033P	O.K.	X
NJD000034P	O.K.	X
NJD000035P	O.K.	X
NJD000036P	O.K.	X
NJD000037P	O.K.	X
NJD000077P	O.K.	X
NJD000078P	O.K.	X
NJD000079P	O.K.	X
NJD000080P	O.K.	X
NJD000138P	O.K.	X
NJD000139P	O.K.	X
NJD000140P	O.K.	X
NJD000149P	O.K.	X
3-Jun		

RESULTS: NO ANOMALIES NOTED

SUMMARY SHEET

TEST PLAN: 288117-70020

Patient Programmer for Neuro devices. Life cycle of battery contacts and door, and external antenna jack.
DATE: 19-Jun-02
Subject samples

Weight
w/o
batteries 2 AA batteries
Total
Weight
oz.
oz.

Battery
Door 6.3.3
cycles
Battery External
Contact Antenna 6.3.4
cycles
6.3.5
cycles

Dimension

Tested by: 6.3.1
Length Width Ht.

288117-70020 test
number

Serial Number	6.3.3 cycles	6.3.4 cycles	6.3.5 cycles
NJD000018P			
NJD000019P			
NJD000020P			
NJD000022P			
NJD000024P			
NJD000025P			
NJD000026P			
NJD000028P			
NJD000031P			
NJD000033P			
NJD000034P			
NJD000035P			
NJD000036P			
NJD000037P			
NJD000077P			
NJD000078P			
NJD000079P			
NJD000080P			
NJD000138P			
NJD000139P			
NJD000140P			
NJD000149P			

Average

Test Path #1

DVT Test Data for 288117-70020

Revision 4.0

Std Dev
Dimensions per print 502814

EQUIPMENT:

PAR# 5365

TEST PLAN: 288117-70020

SUMMARY SHEET

TECH:

Patient Programmer for Neuro devices.

Storage Temperature paragraph 6.2.2 of test plan.

DATE: 19-Jun-02

All Functional Testing done per 6.1 except backlight and IR port.

Subject samples to low temp. storage of degrees F for hours then degrees F for hours.

Functional test samples post each temperature storage.

Serial #	Functional	Functional
NJD000018P		
NJD000019P		
NJD000020P		
NJD000022P		
NJD000024P		
NJD000025P		
NJD000026P		
NJD000028P		
NJD000031P		
NJD000033P		
NJD000034P		
NJD000035P		
NJD000036P		
NJD000037P		
NJD000077P		
NJD000078P		
NJD000079P		
NJD000080P		
NJD000138P		
NJD000139P		
NJD000140P		
NJD000149P		
Date: Complete	18-Jun	18-Jun 19-Jun 19-Jun

NOTES: A=
B=
C=

Results:

Test Path #1

DVT Test Data for 288117-70020

Revision 4.0

EQUIPMENT:

288117-70183

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SUMMARY SHEET

PAR# 5365

TEST PLAN: 288117-70020

TECH:

Patient Programmer for Neuro devices. Operating Temperature paragraph 6.2.1 of test plan.

DATE: 4-Jun-02 All Functional Testing done per 6.1 except backlight and IR port.

Subject samples to Low temp. storage of degrees F for hours then degrees F for hours.

Serial #	Low temp.	Functional	High Temp.	Functional
NJD000018P				
NJD000019P				
NJD000020P				
NJD000022P				
NJD000024P				
NJD000025P				
NJD000026P				
NJD000028P				
NJD000031P				
NJD000033P				
NJD000034P				
NJD000035P				
NJD000036P				
NJD000037P				
NJD000077P				
NJD000078P				
NJD000079P				
NJD000080P				
NJD000138P				
NJD000139P				
NJD000140P				
NJD000149P				
Date: Complete	4-Jun	4-Jun	5-Jun	5-Jun

NOTES: A=

Results:

EQUIPMENT:

SUMMARY SHEET

PAR# 5365 TEST PLAN: 288117-70020

Patient Programmer for Neuro devices.

DATE: 20-Jun-02 Thermal Shock paragraph 6.2.3 of test plan.

Subject samples to cycles of degrees F, I , degrees F, then I

Dwell at each temperature for 1 hour. All Functional Testing done per 6.1 except backlight and IR port.

TECH:

Serial #	Thermal Shock	Functional Testing	Visual
NJD000018P			
NJD000019P			
NJD000020P			
NJD000022P			
NJD000024P			
NJD000025P			
NJD000026P			
NJD000028P			
NJD000031P			
NJD000033P			
NJD000034P			
NJD000035P			
NJD000036P			
NJD000037P			
NJD000077P			
NJD000078P			
NJD000079P			
NJD000080P			
NJD000138P			
NJD000139P			
NJD000140P			
NJD000149P			

NOTES: A=

RESULTS:

EQUIPMENT:

PAR# 5365

TEST PLAN: 288117-70020

TECH:

Patient Programmer for Neuro devices.

DATE: 21-Jun-02

Chemical Resistance paragraph 6.2.7 of test plan.

Subject samples to

Serial #	Chemical Testing	Visual
NJD000018P		
NJD000019P		
NJD000020P		
NJD000022P		
NJD000024P		
NJD000025P		
NJD000026P		
NJD000028P		
NJD000031P		
NJD000033P		
NJD000034P		
NJD000035P		
NJD000036P		
NJD000037P		
NJD000077P		
NJD000078P		
NJD000079P		
NJD000080P		
NJD000138P		
NJD000139P		
NJD000140P		
NJD000149P		

RESULTS:

EQUIPMENT:

Test Path #2 from DVT Plan 288117-70020 Section 7.0

DVT Pre-Test Performed to verify operational units.

Serial Number	Buttons operational	Audio	LCD	Battery contact	Battery Door	Real time clock	IR	Backlight	Communication	Results
NJD000109P	x	x	x	x	x	x	x	x	x	OK
NJD000110P	x	x	x	x	x	x	x	x	x	OK
NJD000111P	x	x	x	x	x	x	x	x	x	OK
NJD000113P	x	x	x	x	x	x	x	x	x	OK
NJD000114P	x	x	x	x	x	x	x	x	x	OK
NJD000116P	x	x	x	x	x	x	x	x	x	OK
NJD000119P	x	x	x	x	x	x	x	x	x	OK
NJD000120P	x	x	x	x	x	x	x	x	x	OK
NJD000121P	x	x	x	x	x	x	x	x	x	OK
NJD000122P	x	x	x	x	x	x	x	x	x	OK
NJD000123P	x	x	x	x	x	x	x	x	x	OK
NJD000124P	x	x	x	x	x	x	x	x	x	OK
NJD000126P	x	x	x	x	x	x	x	x	x	OK
NJD000127P	x	x	x	x	x	x	x	x	x	OK
NJD000128P	x	x	x	x	x	x	x	x	x	OK
NJD000129P	x	x	x	x	x	x	x	x	x	OK
NJD000130P	x	x	x	x	x	x	x	x	x	OK
NJD000131P	x	x	x	x	x	x	x	x	x	OK
NJD000133P	x	x	x	x	x	x	x	x	x	OK
NJD000134P	x	x	x	x	x	x	x	x	x	OK
NJD000136P	x	x	x	x	x	x	x	x	x	OK
NJD000137P	x	x	x	x	x	x	x	x	x	OK

Date: 23-May-02

Testing performed by

I

EQUIPMENT: I

SUMMARY SHEET

TECH:

PAR# 5365 TEST PLAN: 288117-70020

Patient Programmer for Neuro devices.

DATE: 29 MAY 02 INITIAL VISUAL & ELECTRICAL

SERIAL#	VISUAL	Requestor did functional
NJD000109P	O.K.	X
NJD000110P	O.K.	X
NJD000111P	O.K.	X
NJD000113P	O.K.	X
NJD000114P	O.K.	X
NJD000116P	O.K.	X
NJD000119P	O.K.	X
NJD000120P	O.K.	X
NJD000121P	O.K.	X
NJD000122P	O.K.	X
NJD000123P	O.K.	X
NJD000124P	O.K.	X
NJD000126P	O.K.	X
NJD000127P	O.K.	X
NJD000128P	O.K.	X
NJD000129P	O.K.	X
NJD000130P	O.K.	X
NJD000131P	O.K.	X
NJD000133P	O.K.	X
NJD000134P	O.K.	X
NJD000136P	O.K.	X
NJD000137P	O.K.	X
	29-May	

RESULTS:

SUMMARY SHEET

PAR# 5365 TEST PLAN: 288117-70020 TECH:
Patient Programmer for Neuro devices. Broad Band Random Vibration paragraph 6.2.4 of test plan.
DATE: 4-Jun-02 All Functional Testing done per 6.1 except backlight and IR port.
Subject samples to

SERIAL#	Back down	Visual	R. side dow	Visual	Top up	Visual	Functional	Observations
NJD000109P								
NJD000110P								
NJD000111P								
NJD000113P								
NJD000114P								
NJD000116P								
NJD000119P								
NJD000120P								
NJD000121P								
NJD000122P								
NJD000123P								
NJD000124P								
NJD000126P								
NJD000127P								
NJD000128P								
NJD000129P								
NJD000130P								
NJD000131P								
NJD000133P								
NJD000134P								
NJD000136P								
NJD000137P								
Date Completed	7-Jun	7-Jun	7-Jun	7-Jun	7-Jun	7-Jun	13-Jun	

NOTES: A=
B=
C=

RESULTS:

EQUIPMENT:

PAR# 5365 TEST PLAN: 288117-70020 TECH: ROY POPE
Patient Programmer for Neuro devices. Mechanical Shock paragraph 6.2.5 of test plan.
DATE: 20-Jun-02 All Functional Testing done per 6.1 except backlight and IR port.

SUMMARY SHEET

Subject samples to

SERIAL#	Front	Back	Top	Bottom	Left side	Right side	Testing
NJD000109P							
NJD000110P							
NJD000111P							
NJD000113P							
NJD000114P							
NJD000116P							
NJD000119P							
NJD000120P							
NJD000121P							
NJD000122P							
NJD000123P							
NJD000124P							
NJD000126P							
NJD000127P							
NJD000128P							
NJD000129P							
NJD000130P							
NJD000131P							
NJD000133P							
NJD000134P							
NJD000136P							
NJD000137P							

NOTES: A=
B=

RESULTS:

EQUIPMENT:

Test Path #3 from DVT Plan 288117-70020 Section 7.0

DVT Pre-Test Performed to verify operational units.

Serial Number	Buttons operational	Audio	LCD	Battery contact	Battery Door	Real time clock	IR	Backlight	Communication	Results
NJD000081P	x	x	x	x	x	x	x	x	x	OK
NJD000082P	x	x	x	x	x	x	x	x	x	OK
NJD000083P	x	x	x	x	x	x	x	x	x	OK
NJD000084P	x	x	x	x	x	x	x	x	x	OK
NJD000086P	x	x	x	x	x	x	x	x	x	OK
NJD000087P	x	x	x	x	x	x	x	x	x	OK
NJD000089P	x	x	x	x	x	x	x	x	x	OK
NJD000092P	x	x	x	x	x	x	x	x	x	OK
NJD000093P	x	x	x	x	x	x	x	x	x	OK
NJD000094P	x	x	x	x	x	x	x	x	x	OK
NJD000096P	x	x	x	x	x	x	x	x	x	OK
NJD000097P	x	x	x	x	x	x	x	x	x	OK
NJD000098P	x	x	x	x	x	x	x	x	x	OK
NJD000099P	x	x	x	x	x	x	x	x	x	OK
NJD000100P	x	x	x	x	x	x	x	x	x	OK
NJD000101P	x	x	x	x	x	x	x	x	x	OK
NJD000102P	x	x	x	x	x	x	x	x	x	OK
NJD000103P	x	x	x	x	x	x	x	x	x	OK
NJD000104P	x	x	x	x	x	x	x	x	x	OK
NJD000106P	x	x	x	x	x	x	x	x	x	OK
NJD000107P	x	x	x	x	x	x	x	x	x	OK
NJD000108P	x	x	x	x	x	x	x	x	x	OK

Testing performed by Date: 23-May-02

EQUIPMENT: I

TECH:

PAR# 5365 TEST PLAN: 288117-70020

Patient Programmer for Neuro devices.

DATE: 29 MAY 02 INITIAL VISUAL & ELECTRICAL

SERIAL#	VISUAL	Requestor
NJD000081P	O.K.	did functional
NJD000082P	O.K.	X
NJD000083P	O.K.	X
NJD000084P	O.K.	X
NJD000086P	O.K.	X
NJD000087P	O.K.	X
NJD000089P	O.K.	X
NJD000092P	O.K.	X
NJD000093P	O.K.	-X
NJD000094P	O.K.	X
NJD000096P	O.K.	X
NJD000097P	O.K.	X
NJD000098P	O.K.	X
NJD000099P	O.K.	X
NJD000100P	O.K.	X
NJD000101P	O.K.	X
NJD000102P	O.K.	X
NJD000103P	O.K.	X
NJD000104P	O.K.	X
NJD000106P	O.K.	X
NJD000107P	O.K.	X
NJD000108P	O.K.	X
Date: Complete	29-May	

RESULTS: NO ANOMALIES NOTED

Test Path #3

DVT Test Data for 288117-70020

Revision 4.0

I=

EQUIPMENT:

.....

Other Data

DVT Test Data for 288117-70020

Revision 4.0

Section 6.3.6 Button Endurance - Specification for KSS321G, used for
... buttons (
Life Cycle data show life expectancy of

30

12

Other Data

DVT Test Data for 288117-70020

Revision 4.0

Section 6.3.8 Flammability - Both top and bottom housings are made from

Other Data

DVT Test Data for 288117-70020

Revision 4.0

Section 6.3.6 - Button Endurance - Specification for KSC621 - Used for top buttons (Life Cycle data show life expectancy

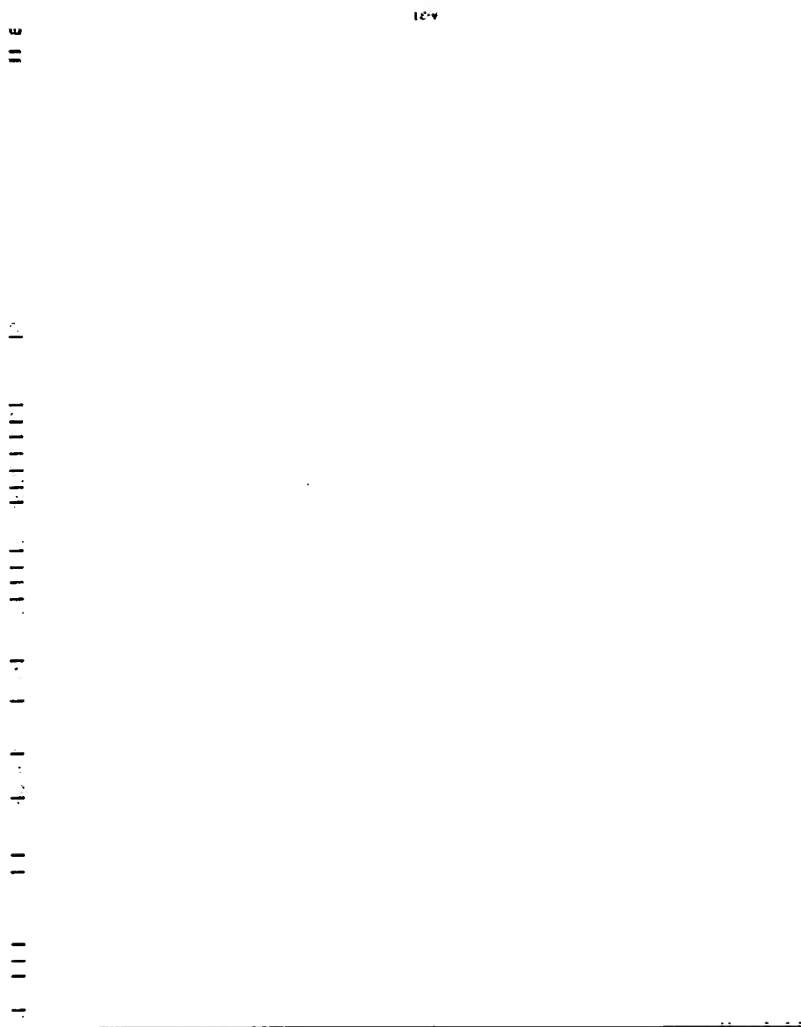
[illegible]

Exhibit D (cont.)

Other Data

DVT Test Data for 288117-70020

Revision 4.0

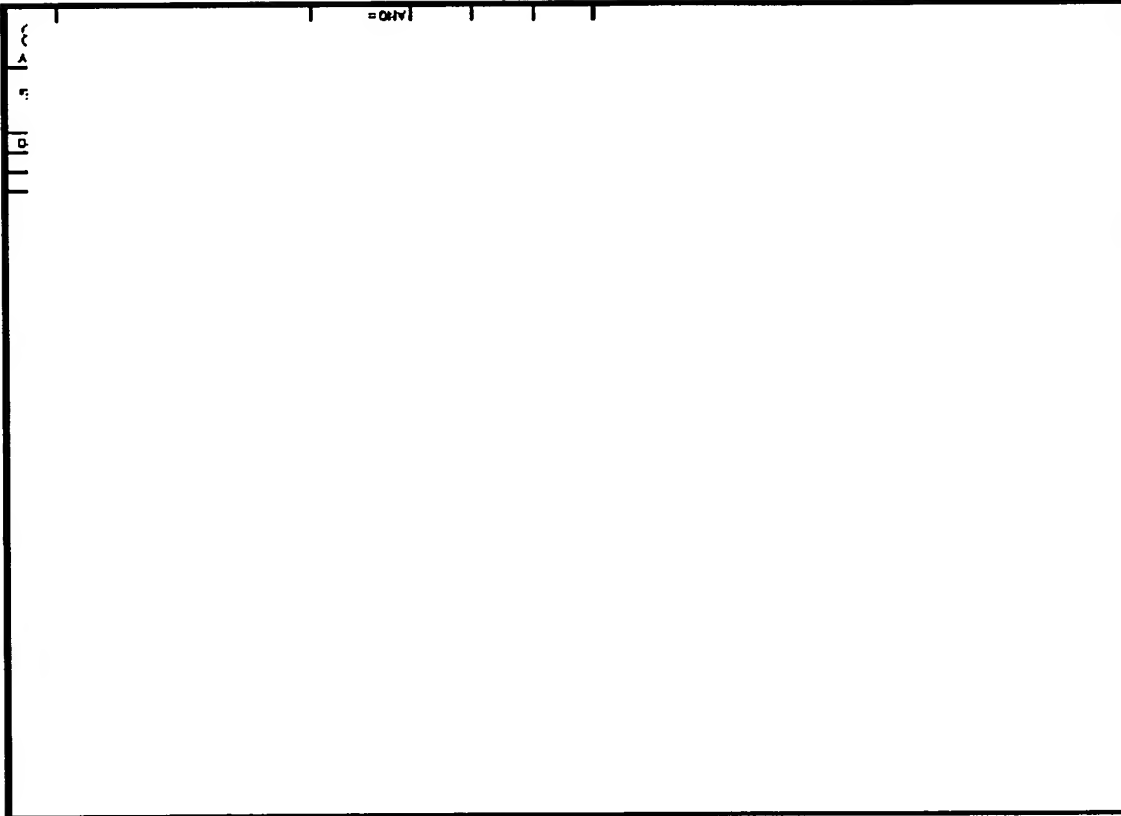


Other Data

DVT Test Data for 288117-70020

Revision 4.0

Section 6.3.6 - Button Endurance - Specification for F
Used for
Life Cycle data show
life expectancy of



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Other Data

DVT Test Data for 288117-70020

Revision 4.0



Section 6.3.7 Scratch resistance -

Other Data

DVT Test Data for 288117-70020

Revision 4.0

Exhibit D (cont.)

DVT Test Data for 288117-70020

Revision 4.0

Other Data

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